

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-316722

(43)Date of publication of application : 16.11.2001

(51)Int.Cl.

C21D 1/74

C21D 1/18

C21D 1/58

(21)Application number : 2000-114948

(71)Applicant : IDEMITSU KOSAN CO LTD

(22)Date of filing : 17.04.2000

(72)Inventor : NAKAMURA HIDEKAZU

TAKEISHI MAKOTO

ICHITANI KATSUMI

(30)Priority

Priority number : 2000057049

Priority date : 02.03.2000

Priority country : JP

(54) HEAT TREATMENT METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a heat treatment method in which a strain is reduced and a good hardness can be obtained in the quench hardening treatment of steel parts.

SOLUTION: In this heat treatment method, at an oil cooling stage in the quenching treatment, the quenching oil surface pressure in the case of charging the treating material into the quenching oil whose kinematic viscosity is 6-50 mm²/sec at 100° C is reduced to 10-300 Torr and thereafter, inert gas or the air is introduced under the state, where the surface of the treating material is in boiling state, to control the surface pressure of the quenching oil to >300 Torr.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office